

# IDH1 Antibody

Catalog No: #32637



Package Size: #32637-1 50ul #32637-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
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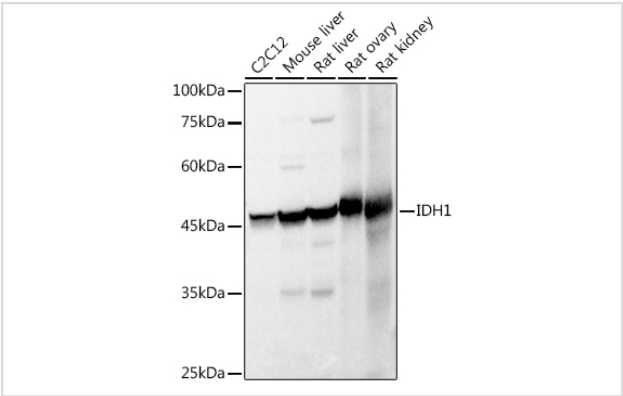
## Description

Product Name	IDH1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total IDH1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant fusion protein of human IDH1 (NP_005887.2).
Target Name	IDH1
Other Names	IDH1;HEL-216;HEL-S-26;IDCD;IDH;IDP;IDPC;PICD
Accession No.	Uniprot:O75874GeneID:3417
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GeneID	3417
SDS-PAGE MW	46KDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

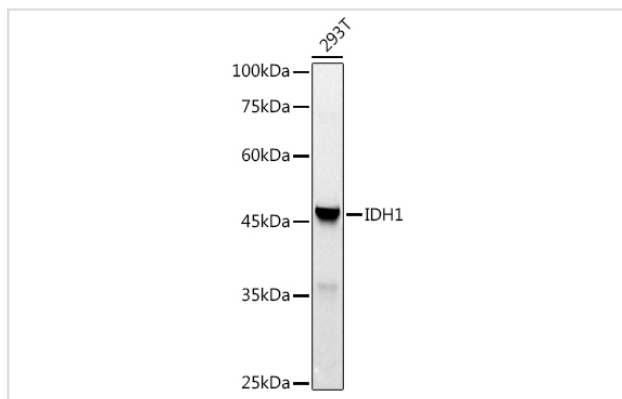
## Application Details

WB 1:500 - 1:2000IF 1:50 - 1:200

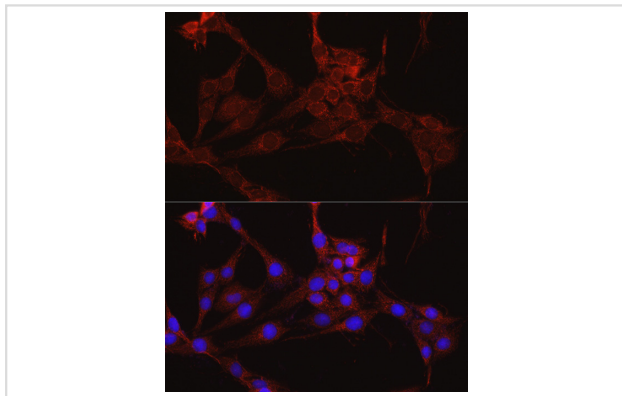
## Images



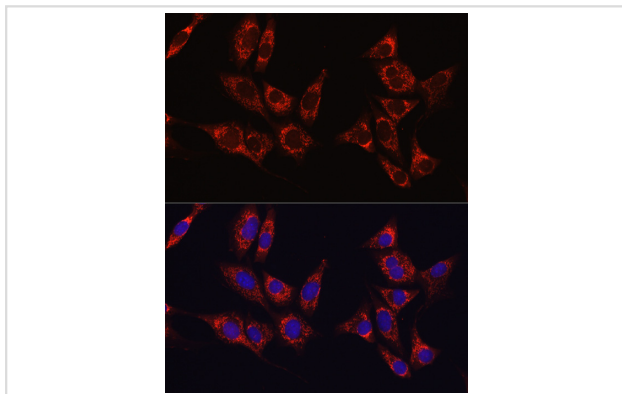
Western blot analysis of extracts of various cell lines, using IDH1 antibody.



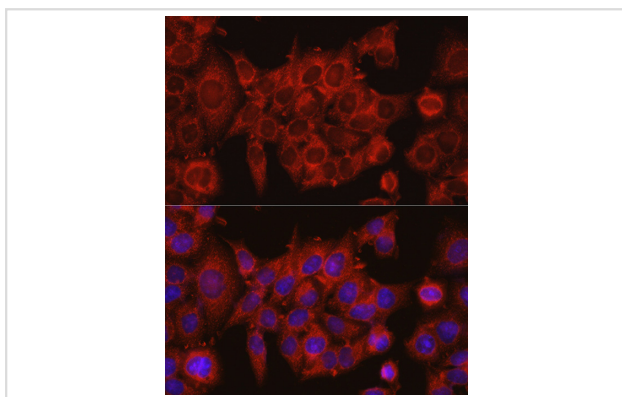
Western blot analysis of extracts of 293T cells, using IDH1 antibody.



Immunofluorescence analysis of PC-12 cells using IDH1 Rabbit pAb.



Immunofluorescence analysis of NIH/3T3 cells using IDH1 Rabbit pAb.



Immunofluorescence analysis of HeLa cells using IDH1 Rabbit pAb.

## Background

Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. It contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate, namely the alpha-hydroxylation of

phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production. Alternatively spliced transcript variants encoding the same protein have been found for this gene.

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Note: This product is for in vitro research use only